Listing of Claims

Claims 1-20 (Canceled)

21. (New) A parts washer comprising:

a cleaning chamber;

a receptacle into which parts to be cleaned are placed, the receptacle being rotatably mounted within the cleaning chamber;

a plurality of spray manifolds, each spray manifold having a plurality of spray jets arranged to spray cleaning fluid from a common cleaning fluid supply onto the parts in the receptacle, the spray manifolds being moveably mounted within the cleaning chamber and coupled to a spray manifold drive motor such that the spray manifold drive motor causes reciprocating motion of the spray manifolds, the spray manifolds comprising at least one horizontal spray manifold arranged to undergo reciprocal movement in a generally horizontal plane and to spray cleaning fluid in a generally vertical direction and a vertical spray manifold arranged to undergo reciprocal linear motion generally along a longitudinal axis of the vertical spray manifold and to spray cleaning fluid in a generally horizontal direction from a location outside the receptacle and toward the receptacle.

22. (New) The parts washer according to claim 21, wherein the reciprocal motion of the vertical spray manifold further comprises reciprocal rotational motion about its longitudinal axis.

23. (New) The parts washer according to claim 22, comprising an inlet manifold providing fluid communication between a supply of cleaning fluid and the spray manifolds, the inlet manifold being coupled to the spray manifold drive motor wherein the spray manifold drive motor causes reciprocating motion of the inlet manifold which causes the reciprocal motion of the at least one horizontal spray manifold.

24. (New) The parts washer in accordance with claim 23, comprising a drive wheel which is rotated by the spray manifold drive motor and a first cam member connected between the drive wheel and the inlet manifold such that the rotation of the drive wheel causes the reciprocal motion of the inlet manifold.

25. (New) The parts washer in accordance with claim 24, wherein the first cam member comprises a cam plate having a slot and the drive wheel comprises an off-centre lug engaged with said slot.

26. (New) The parts washer in accordance with claim 25, comprising a pipe being rotatably connected between the inlet manifold and the vertical spray manifold and a second cam member connected between the drive wheel and the pipe such that rotation of the drive wheel causes the pipe to undergo reciprocal rotational movement which causes the reciprocal movement in the vertical plane of the vertical spray manifold.

27. (New) The parts washer in accordance with claim 26, wherein the second cam member comprises a cam rod connected at a first end thereof to the off centre lug on the drive wheel and pivotally coupled at a second end thereof to the pipe

28. (New) The parts washer in accordance with claim 27, wherein the pipe is provided with an elbow between the inlet manifold and the vertical spray manifold and the cam rod is connected by a lever arm to the pipe, the lever arm connected to the pipe at a location between the elbow and the inlet manifold.

29. (New) The parts washer in accordance with claim 28, comprising an interconnecting member pivotally connected between the vertical spray manifold and the at least one horizontal spray manifold such that the rotational reciprocal motion of the horizontal manifolds causes the rotational reciprocal motion of the vertical spray manifold.

30. (New) The parts washer in accordance with claim 21, wherein each of the spray jets sprays a solid, non-diverging stream of cleaning fluid.

31. (New) The parts washer in accordance with claim 30, wherein the spray jets are directed to spray at varying angles in a single plane.

32. (New) The parts washer in accordance with claim 21, wherein the horizontal spray manifolds are provided with a plurality of spray jets at an outer end thereof.

33. (New) The parts washer in accordance with claim 21, wherein the vertical spray manifold is provided with a plurality of spray jets at an upper end thereof and a plurality of spray jets at a lower end thereof.

34. (New) The parts washer in accordance with claim 21, wherein the spray manifold drive motor is arranged such that after a single revolution of the receptacle, the spray manifolds are in a position offset from an initial position of the spray manifolds at the commencement of said revolution.

35. (New) The parts washer in accordance with claim 21, wherein the receptacle comprises a basket mounted on a central drive shaft.

36. (New) The parts washer in accordance with claim 23, wherein the at least one horizontal spray manifold comprises a first horizontal spray manifold located above the receptacle having spray jets directed downwardly toward the receptacle and a second horizontal spray manifold located below the receptacle having spray jets directed upwardly toward the receptacle.

37. (New) The parts washer in accordance with claim 36, wherein the first and second horizontal spray manifolds are connected together by an interconnecting manifold arranged to extend generally vertically between the first and second horizontal spray manifolds.

38. (New) The parts washer according to claim 37, wherein the inlet manifold is connected to and in fluid communication with the interconnecting manifold.